

APPENDIX K
BACKGROUND INFORMATION

K-1. Generator:

- (a) Manufacturer
- (b) Date placed in commercial service
- (c) Type and age of present winding insulation
- (d) Rating (MVA and power factor):
 - (I) Nameplate
 - ii) Overload capacity
- (e) Shaft data:
 - I) Inside diameter
 - ii) Outside diameter
 - (iii) Material
 - (iv) Forged or fabricated
 - (v) Stress
- (f) Impedance
- (g) Field current at rated load
- (h) Flywheel effect (WR^2)

K-2. Turbine:

- (a) Type
- (b) Rating (HP and head)
- (c) Shaft data:
 - (I) Inside diameter

- (ii) Outside diameter
- (iii) Material
- (iv) Stress
- (d) Cavitation limitations
- (e) Flywheel effect (WR^2)

K-3. Transformer:

- (a) Manufacturer
- (b) Class (OA/FOA, FOA, FOW)
- (c) Rating (MVA, voltage, impedance)
- (d) Number of connected units

K-4. Excitation Equipment:

- (a) Manufacturer
- (b) Type:
 - (I) Rotating
 - (ii) Static
- (c) Nominal voltage rating
- (d) Continuous current rating

K-5. Governor

- (a) Manufacturer
- (b) Rating, lbs. - ft.

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(c) Type (Electronic or
mechanical)

K-6. Generator Circuit Breaker:

- (a) Manufacturer
- (b) Type
- (c) Rated maximum voltage
- (d) Rated continuous
current
- (e) Rated short circuit
current and
interrupting capacity

K-7. Buses:

- (a) Manufacturer
- (b) Type
- (c) Rated maximum voltage
- (d) Rated continuous
current
- (e) Rated momentary
current

K-8. Penstocks, Water Passages and Other
Considerations: